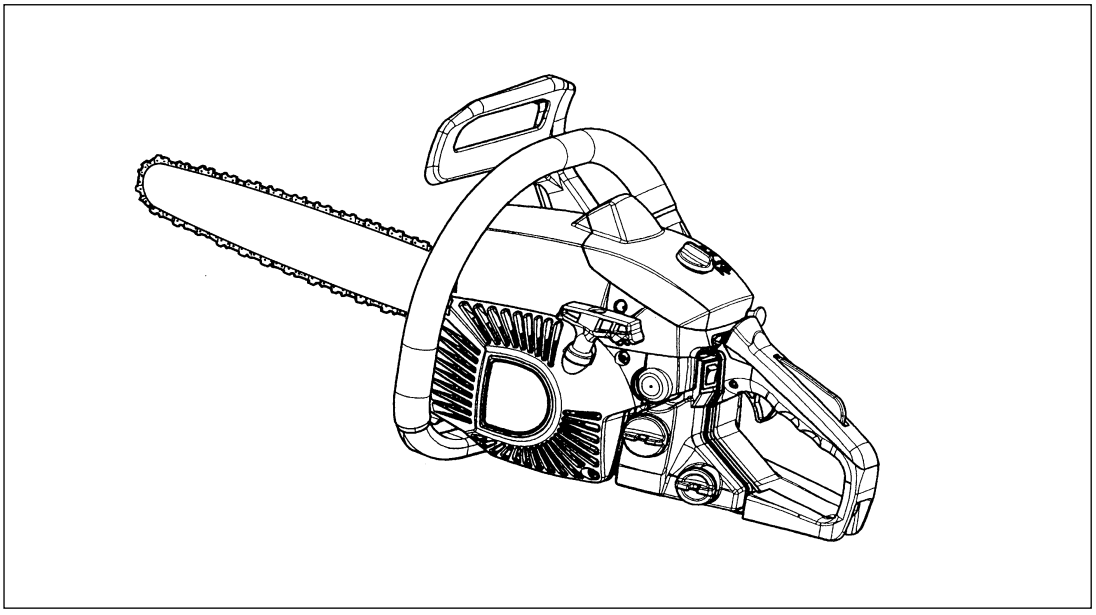
848-C50-93A0 (603)

RedMax®

OWNER/OPERATOR MANUAL

CHAINSAWS

GZ4000



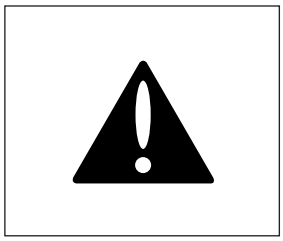
⚠ WARNING ⚠

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

⚠ WARNING ⚠

Before using our products, please read this manual carefully to understand the proper use of your unit.

APPLICABLE SERIAL NUMBERS : 60322501 and up



⚠ SAFETY FIRST

Instructions contained in warnings within this manual marked with a ⚠ symbol concern critical points which must be taken into consideration to prevent possible serious bodily injury, and for this reason you are requested to read all such instructions carefully and follow them without fail.

■ WARNINGS IN THE MANUAL

⚠WARNING

This mark indicates instructions which must be followed in order to prevent accidents which could lead to serious bodily injury or death.

IMPORTANT

This mark indicates instructions which must be followed, or it leads to mechanical failure, breakdown, or damage.

NOTE

This mark indicates hints or directions useful in the use of the product.

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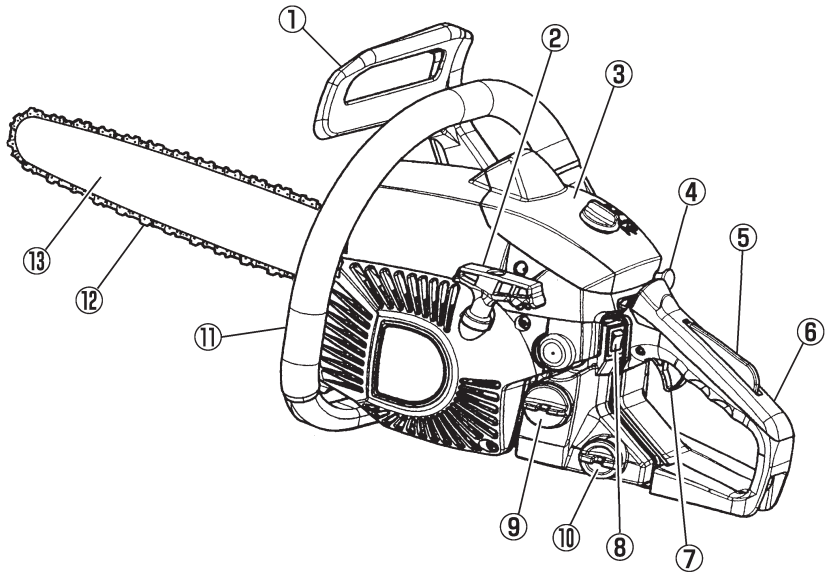
1. Parts location



1. Front guard
2. Starter knob
3. Air cleaner
4. Choke knob
5. Throttle interlock
6. Right handle
7. Throttle lever
8. Engine switch
9. Fuel tank
10. Oil tank
11. Left handle
12. Saw chain
13. Guide Bar

2. Specifications

■ **GZ4000**

Power unit :

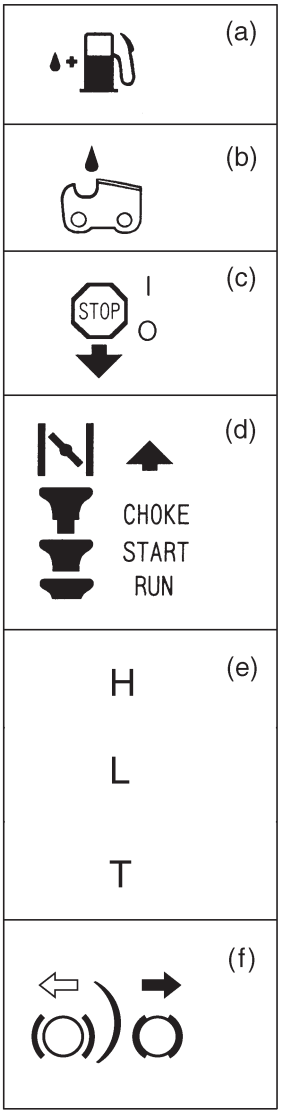
Dis placement	2.45(40.1) cu-in(cm^3)
Fuel	Mixture(Gasoline 50 : 2-cycle oil 1) (when using ZENOAH genuine oil)
Fuel tank capacity	10.4(0.31) fl.oz(ℓ)
Chain oil	Motor oil SAE #10W-30
Oil tank capacity	7.10(0.21) fl.oz(ℓ)
Carburetor	Diaphragm type (ZAMA C1Q)
Ignition system	Pointless (CDI)
Spark plug	Champion RZ7C
Oil feeding system	Automatic pump
Sprocket : Pitch – No. of teeth	3/8in(9.53mm) – 6T
Dimensions : L – W – H	14.8(370)x9.4(235)x10.8(270) in(mm)
Dry weight	9.5(4.3) lbs(kg)

Cutting attachment :

Guide bar : Type – Size	Sprocket nose – 16(40) in(cm)
Saw chain : Type – Pitch – Gauge	Oregon 91VG – 3/8(9.53) – 0.050(1.27) in(mm)

Specifications are subject to change without notice.

3. Symbols on the machine



⚠WARNING

For safe operation and maintenance, symbols are carved in relief on the machine.
According to these indications, please be careful not to take a mistake.

(a). The port to refuel the "MIX GASOLINE"
Position: Fuel cap

(b). The port to refuel the chain oil
Position: Oil cap

(c). Put the switch to the "O" position, immediately the engine stops.
Position: Rear-left of the unit

(d). Starting the engine, if you pull out the choke knob (at the back-right of the rear handle) to the point of the arrow, you can set the starting mode as follows
- First-stage position – starting mode when the engine is warm.
- Second-stage position – starting mode when the engine is cool.

Position: Upper-right of the aircleaner cover

(e). The screw under the "H" stamp is The High-speed adjustment screw.
The screw under the "L" stamp is The Slow-speed adjustment screw.
The screw at the left of the "T" stamp is the Idle adjustment screw.
Position: Left side of the rear handle

(f). It shows the directions that the chain brake is released (for the white arrow) and activated (for the black arrow).
Position: Front of the chain cover

IMPORTANT ENGINE INFORMATION
THIS ENGINE MEETS U.S. EPA PH2 AND 2006 CALIFORNIA EMISSION REGULATIONS FOR SI SORE's COMPLIANCE PERIOD : CATEGORY B
ENGINE FAMILY : 6KZXS. 0404FG ; EM
ENGINE DISPLACEMENT : 40cc
REFER TO OWNER'S MANUAL FOR MAINTE-NANCE SPECIFICATIONS AND ADJUSTMENTS.
MANUFACTURED :
KOMATSU ZENOAH CO. MADE IN JAPAN
RedMax® **Use RedMax 50:1 Oil !**

INFORMATION IMPORTANTE CONCERNANT LE MOTEUR
Ce moteur est conformc aux normcs U.S. EPA PH2 et 2006 ainsi qu'aux autres dispositions ultérieures de la réglementation concernant la pollution de l'air pour les petits moteurs tout-terrain avec une période de accordable : CATEGORY B
Type de moteur : 6KZXS. 0404FG : EM
Cylindrée du moteur : 40cc
Se référer au Manuel de l'utilisateur pour les spécifications d'entretien et les réglages.
Manufacturé :
KOMATSU ZENOAH CO. MADE IN JAPAN
RedMax® **Use RedMax 50:1 Oil !**

⚠ 4. For safe operation

1. Never operate a chain saw when you are fatigued, ill, or upset, or under the influence of medication that may make you drowsy, or if you are under the influence of alcohol or drugs.
2. Use safety footwear, snug fitting clothing and eye, hearing and head protection devices.
3. Select flat and bare ground for fueling.
4. Always use caution when handling fuel. Wipe up all spills and then move the chain saw at least ten(10) feet(three(3) m) from the fueling point before starting the engine.

   4a) Eliminate all sources of sparks or flame (ie. smoking, open flames, or work that can cause sparks) in the areas where fuel is mixed, poured, or stored.

   4b) Do not smoke while handling fuel or while operating the chain saw.
5. Do not allow other persons to be near the chain saw when starting the engine or cutting a wood. Keep bystanders and animals out of the work area. Children, pets, and bystanders should be a minimum of thirty(30) feet away when you start or operate the chain saw.
6. Never start cutting until you have a clear work area, secure footing, and planned retreat path from the falling tree.
7. Always hold the chain saw firmly with both hands when the engine is running. Use a firm grip with thumb and fingers encircling the chain saw handles.
8. Keep all parts of your body away from the saw chain when the engine is running.
9. Before you start the engine, make sure the saw chain is not contacting anything.
10. Always carry the chain saw with the engine stopped, the guide bar and saw chain to the rear, and the muffler away from your body.
11. Always inspect the chain saw before each use for worn, loose, or changed parts. Never operate a chain saw that is damaged, improperly adjusted, or is not completely and securely assembled. Be sure that the saw chain stops moving when the throttle control trigger is released.
12. All chain saw service, other than the items listed in the Operator's Manual, should be performed by competent chain saw service personnel. (e.g., if improper tools are used to remove the flywheel, or if an improper tool is used to hold the flywheel in order to remove the clutch, structural damage to the flywheel could occur which could subsequently cause the flywheel to disintegrate).
13. Always shut off the engine before setting it down.
14. Use extreme caution when cutting small size brush and saplings because slender material may catch the saw chain and be whipped toward you or pull you off balance.
15. When cutting a limb that is under tension, be alert for spring back so that you will not be struck when the tension in the wood fibers is released.
16. Keep the handles dry, clean and free of oil or fuel mixture.

⚠ 4. For safe operation

16. Operate the chain saw only in well ventilated areas. Never start or run the engine inside a closed room or building. Exhaust fumes contain dangerous carbon monoxide.
17. Do not operate a chain saw in a tree unless specially trained to do so.
18. Guard against kickback. Kickback is the upward motion of the guide bar which occurs when the saw chain at the nose of the guide bar contacts an object. Kickback can lead to dangerous loss of control of the chain saw.
19. When transporting your chain saw, make sure the appropriate guide bar scabbard is in place.
20. This chain saw is equipped with a spark arrester built-in muffler. Periodically check the arrester to keep it in good order.

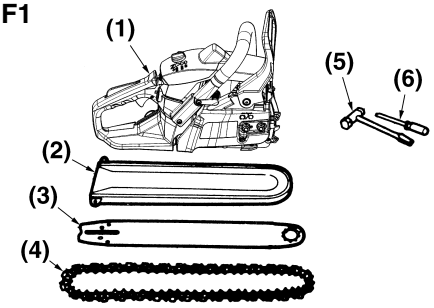
KICKBACK SAFETY PRECAUTIONS FOR CHAIN SAW USERS

⚠WARNING

- Kickback may occur when the nose or tip of the guide bar touches an object, or when the wood closes in and pinches the saw chain in the cut. Tip contact in some cases may cause a lightning fast reverse reaction, kicking the guide bar up and back towards the operator. Pinching the saw chain along the top of the guide bar may push the guide bar rapidly back towards the operator. Either of these reactions may cause you to lose control of the saw which could result in serious personal injury.
- Do not rely exclusively on the safety devices built into your saw. As a chain saw user you should take several steps to keep cutting jobs free from accident or injury.
  (1) With a basic understanding of kickback you can reduce or eliminate the element of surprise. Sudden surprise contributes to accidents.
  (2) Keep a good grip on the saw with both hands, the right hand on the rear handle, and the left hand on the front handle, when the engine is running. Use a firm grip with thumbs and fingers encircling the chain saw handles. A firm grip will help you reduce kickback and maintain control of the saw. Don't let go.
  (3) Make certain that the area in which you're cutting is free from obstructions. Do not let the nose of the guide bar contact a log, branch, or any other obstruction which could be hit while you are operating the saw.
  (4) Cut at high engine speeds.
  (5) Do not overreach or cut above shoulder height.
  (6) Follow manufacturers sharpening and maintenance instructions for saw chain.
  (7) Only use replacement bars and chains specified by the manufacturer or the equivalent.

5. Installing guide bar and saw chain

F1



A standard saw unit package contains the items as illustrated. (F1)

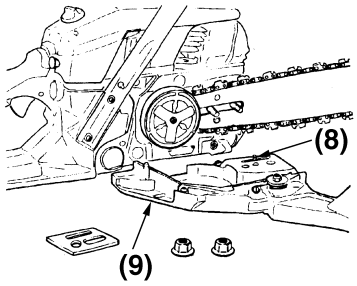
(1) Power unit
(2) Bar protector
(3) Guide bar
(4) Saw chain
(5) Plug wrench
(6) Screwdriver for carburetor adjustment

Open the box and install the guide bar and the saw chain on the power unit as follows:

⚠WARNING

The saw chain has very sharp edges. Use thick protective gloves for safety.

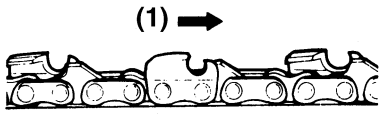
F2



1. Pull the guard towards the front handle to check that the chain brake is not on.
2. Loosen the nuts and remove the chain cover.
3. Gear the chain to the sprocket and, while fitting the saw chain around the guide bar, mount the guide bar to the power unit. Adjust the position of chain tensioner. (F2)

(8) Tensioner nut
(9) Chain cover

F3

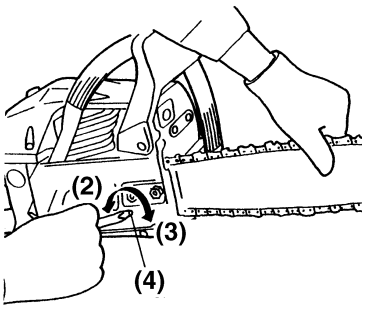


NOTE

Pay attention to the correct direction of the saw chain. (F3)

(1) Moving Direction

F4



4. Fit the chain cover to the power unit and fasten the nuts to finger tightness.
5. While holding up the tip of the bar, adjust the chain tension by turning the tensioner screw until the tie straps just touch the bottom side of the bar rail.(F4)
6. Tighten the nuts securely with the bar tip held up (12~15 N·m). Then check the chain for smooth rotation and proper tension while moving it by hand. If necessary, readjust with the chain cover loose.

5. Installing guide bar and saw chain

7. Tighten the tensioner screw.

(2) Loosen
(3) Tighten
(4) Tensioner screw

NOTE

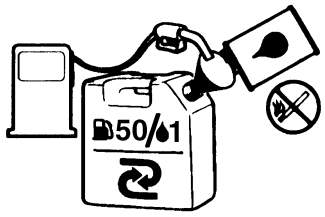
A new chain will expand its length in the beginning of use. Check and readjust the tension frequently as a loose chain can easily derail or cause rapid wear of itseif and the guide bar.

6. Fuel and Chain oil

⚠WARNING

- **Gasoline is very flammable. Avoid smoking or bringing any flame or sparks near fuel. Make sure to stop the engine and allow it cool before refueling the unit. Select outdoor bare ground for fueling and move at least 3m (10ft) away from the fueling point before starting the engine.**

- The RedMax engines are lubricated by oil specially formulated for air-cooled 2-cycle gasoline engine use. If RedMax oil is not available, use an anti-oxidant added quality oil expressly labeled for air-cooled 2-cycle engine use. (JASO FC GRADE OIL or ISO EGC GRADE)
- Do not use BIA or TCW (2-stroke water-cooling type) mixed oil.



■ RECOMMENDED MIXING RATIO
GASOLINE 50:OIL 1
(when using ZENOAH genuine oil)

50:1 MIXING CHART

GASOLINE gal.	1	2	3	4	5
2-CYCLE OIL fl.oz	2.6	5.2	7.8	10.4	13

GASOLINE liter	1	2	3	4	5
2-CYCLE OIL ml	20	40	60	80	100

- **Exhaust emission are controlled by the fundamental engine parameters and components(eq., carburation, ignition timing and port timing) without addition of any major hardware or the introduction of an inert material during combustion.**
- These engines are certified to operate on unleaded gasoline.
- Make sure to use gasoline with a minimum octane number of 89 RON (USA/Canada: 87AL)
- If you use a gasoline of a lower octane value than prescribed, there is a danger that the engine temperature may rise and an engine problem such as piston seizing may consequently occur.
- Unleaded gasoline is recommended to reduce the contamination of the air for the sake of your health and the environment.
- Poor quality gasolines or oils may damage sealing rings, fuel lines or fuel tank of the engine.

■ HOW TO MIX FUEL

❗ IMPORTANT

Pay attention to agitation.

1. Measure out the quantities of gasoline and oil to be mixed.
2. Put some of the gasoline into a clean, approved fuel container.
3. Pour in all of the oil and agitate well.
4. Pour In the rest of gasoline and agitate

again for at least one minute. As some oils may be difficult to agitate depending on oil ingredients, sufficient agitation is necessary for the engine to last long. Be careful that, if the agitation is insufficient, there is an increased danger of early piston seizing due to abnormally lean mixture.

5. Put a clear indication on the outside of the container to avoid mixing up with gasoline or other containers.
6. Indicate the contents on outside of container for easy identification.

■ FUELING THE UNIT

1. Untwist and remove the fuel cap. Rest the cap on a dustless place.
2. Put fuel into the fuel tank to 80% of the full capacity.
3. Fasten the fuel cap securely and wipe up any fuel spillage around the unit.

⚠WARNING

1. Select bare ground for fueling.
2. Move at least 10feet (3meters) away from the fueling point before starting the engine.
3. Stop the engine before refueling the unit. At that time, be sure to sufficiently agitate the mixed gasoline in the container.

FOR YOUR ENGINE LIFE, AVOID;

1. FUEL WITH NO OIL(RAW GASOLINE) – It will cause severe damage to the internal engine parts very quickly.
2. GASOHOL – It can cause deterioration of rubber and/or plastic parts and disruption of engine lubrication.
3. OIL FOR 4-CYCLE ENGINE USE – It can cause spark plug fouling, exhaust port blocking, or piston ring sticking.
4. **Mixed fuels which have been left unused for a period of one month or more** may clog the carburetor and result in the engine failing to operate properly.
5. In the case of storing the product for a long period of time, clean the fuel tank after rendering it empty. Next, activate the engine and empty the carburetor of the composite fuel.
6. In the case of scrapping the used mixed oil container, scrap it only at an authorized repository site.

NOTE

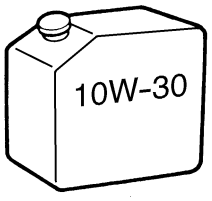
As lot details of quality assurance, read the description in the section Limited Warranty carefully. Moreover, normal wear and change in product with no functional influence are not covered by the warranty. Also, be careful that, if the usage in the instruction manual is not observed as to the mixed gasoline, etc. described therein, it may not be covered by the warranty.

■ CHAIN OIL

Use motor oil SAE 10W-30 all year round, or SAE 30-40 in summer and SAE 20 in winter.

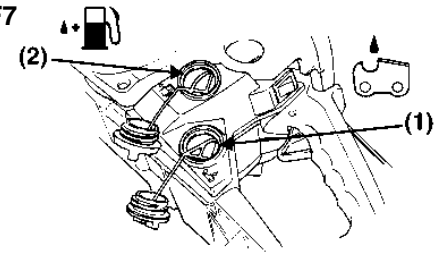
NOTE

Do not use waste or regenerated oil that can cause damage to the oil pump.

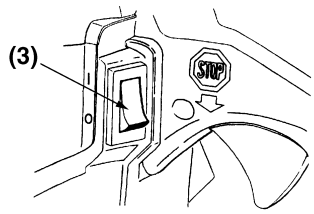


7. Operation

F7



F8



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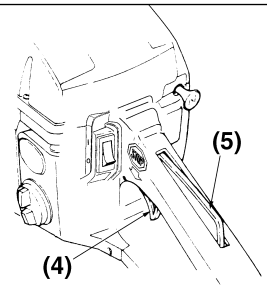

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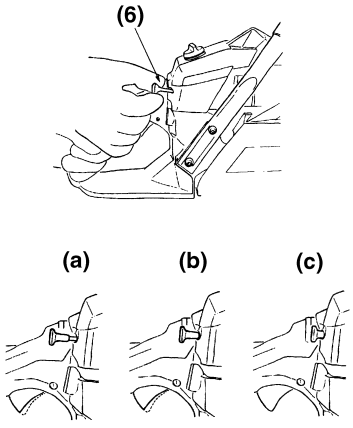
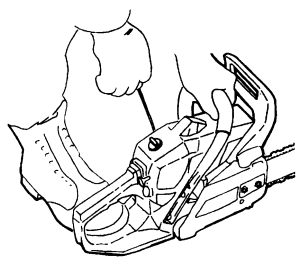


F11



⚠WARNING

It is very dangerous to run a chainsaw that mounts broken parts or lacks any parts.
Before starting engine, make sure that all the parts including bar and chain are installed properly.

■ STARTING ENGINE

1. Fill fuel and chain oil tanks respectively, and tighten the caps securely. (F7)
2. Put the switch to "I" position. (F8)

(1) Chain oil (2) Fuel
(3) Switch (4) Throttle lever
(5) Throttle interlock

3. Pull out the choke knob to the second-stage position. The choke will close and the throttle lever will then be set in the starting position [F10-(a)].

(6) Choke knob

NOTE

When restarting immediately after stopping the engin, Choke knob in the first-stage position (choke open and throttle lever in the starting position)

NOTE

Once the choke knob has been pulled out, it will not return to the operating position even if you press down on it with your finger. When you wish to return the choke knob to the operating position, pull out the throttle lever instead.

4. While holding the saw unit securely on the ground, pull the starter rope vigorously. (F11)

⚠WARNING

Do not start the engine while hanging the chain saw with a hand. The saw chain may touch your body. It's very dangerous.

5. When engine has ignited first, puch in the choke knob to the first-stage position and pull the starter again to start the engine.
6. Allow the engine to warm up with the throttle lever pulled slightly.

⚠WARNING

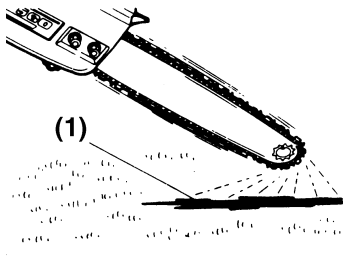
Keep clear of the saw chain as it will start rotatlng upon starting of engine.

■ **CHECKING OIL SUPPLY**

⚠WARNING

Make sure to set up the bar and the chain when checking the oil supply.
If not, the rotating parts may be exposed. It is very dangerous.

F12



After starting the engine, run the chain at medium speed and see if chain oil is scattered off as shown in the figure. (F12)

(1) Chain oil

■ **ADJUSTING CARBURETOR (F14)**

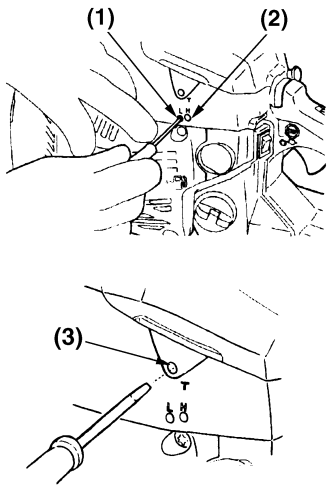
The carburetor on your unit has been factory adjusted, but may require fine tuning due to change in operating conditions.
Before adjusting the carburetor, make sure that provided are clean air/fuel filters and fresh, properly mixed fuel.

When adjusting, take the following steps:

NOTE

Be sure to adjust the carburetor with the bar chain attached.

F14



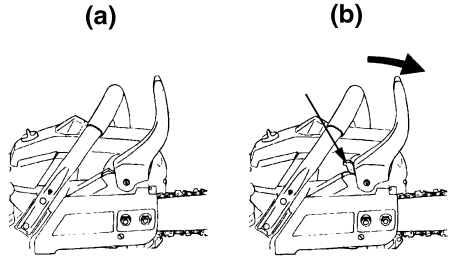
1. H and L needles are restricted within the number of turn as shown below.

   H needle –1/4
   L needle fixed

2. Start engine and allow it to warm up in low speed for a few minutes.
3. Turn idle adjusting screw (T) counter-clockwise so that saw chain does not turn. If idling speed is too slow, turn the screw clockwise.
4. Make a test cut adjust the H needle for best cutting power, not for maximum speed.

(1) L needle
(2) H needle
(3) Idle adjusting screw

F15



■ CHAIN BRAKE

This machine is equipped with an automatic brake to stop saw chain rotation upon occurrence of kickback while in saw cutting operation. The brake is automatically operated by inertial force which acts on the weight fitted inside the front guard.
This brake can also be operated manually with the front guard turned down to the guide bar.
To release brake, pull up the front guard toward the front handle till "click" sound is heard. (F15)

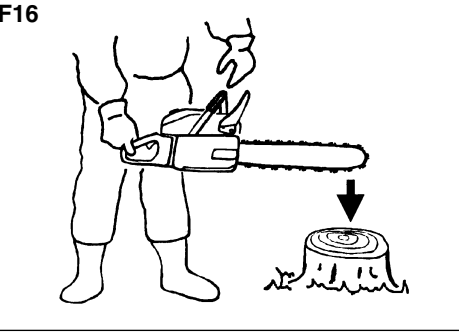
IMPORTANT

Be sure to confirm brake operation on the daily inspection.

How to confirm:

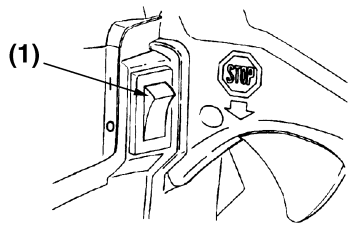
1) Turn off the engine.
2) Holding the chain saw horizontally, release your hand from the front handle, hit the tip of the guide bar to a stump or a piece of wood, and confirm brake operation. Operating level varies by bar size. (F16)

F16



In case the brake is not effective, ask our dealer inspection and repairing.
The engine, If being kept rotated at high speed with the brake engaged, heats the clutch, causing a trouble.
When the brake is operated while in operation, immediately release your fingers from the throttle lever and stop the engine.

F17



■ **STOPPING ENGINE**

1. Release the throttle lever to allow the engine idling for a few minutes
2. Put the switch to the "O" (STOP) position. (F17)

(1) Switch

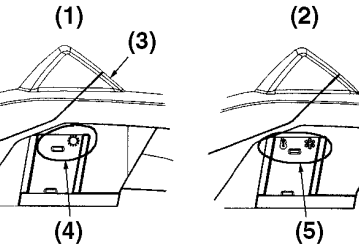
Carburetor anti-freeze mechanism

Operating the chain saws in temperatures of 0–5°C at times of high humidity may result in ice forming within the carburetor, and this in turn may cause the output power of the engine to be reduced or for the engine to fail to operate smoothly.

This product has accordingly been designed with a ventilation hatch on the right side of the surface of the cylinder cover to allow warm air to be supplied to the engine and to thereby prevent icing from occurring.

Under normal circumstances the product should be used in normal operating mode, i.e., in the mode to which it is set at the time of shipment. However when the possibility exists that icing may occur, the unit should be set to operate in anti-freeze mode before use.(F18)

F18

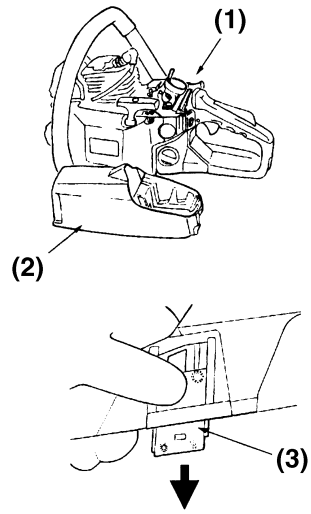


(1) Normal operating mode
(2) Anti-freeze mode
(3) Cylinder cover
(4) 'Sun shine' mark
(5) 'Snow' mark

⚠WARNING

Continuing to use the product in anti-freeze mode even when temperatures have risen and returned to normal may result in the engine failing to start properly or in the engine failing to operate at its normal speed, and for this reason you should always be sure to return the unit to normal operating mode if there is no danger of icing occurring.

F19



■ HOW TO SWITCH BETWEEN OPERATING MODES (F19)

1. Flip the engine switch to turn off the engine.
2. Remove the cover to the air filter, remove the air filter, and then remove the choke knob from the cylinder cover.
3. Loosen the screws holding the cylinder cover in place (i.e., the three screws on the inside and the one screw on the outside of the cover), and then remove the cylinder cover.
4. Press with your finger down on the icing cap located on the right-hand side of the cylinder cover to remove the icing cap.
5. Adjust the icing cap so that the 'snow' mark faces upwards and then return it to its original position in the cylinder cover.
6. Fix the cylinder cover back into its original position, and then fix all other parts back into their proper positions.

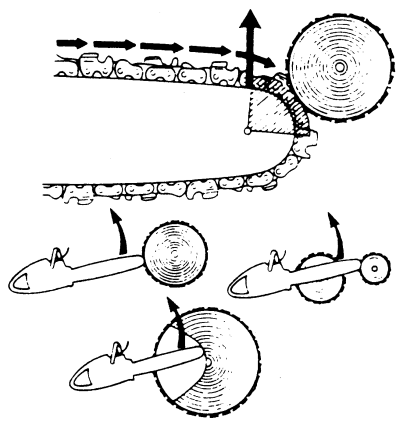
(1) Choke knob
(2) Cylinder cover
(3) Icing cap

8. Sawing

⚠WARNING

- **Before proceeding to your job, read "For Safe Operation" section It is recommended to first practice sawing easy logs. This also helps you get accustomed to your unit.**
- **Always follow the safety regulations. The chain saw must only be used for cutting wood. It is forbidden to cut other types of material. Vibrations and kickback vary with different materials and the requirements of the safety regulations would not be respected. Do not use the chain saw as a lever for lifting, moving or splitting objects. Do not lock it over fixed stands. It is forbidden to hitch tools or applications to the P.t.o. that are not specified by the manufacturer.**
- **It is not necessary to force the saw into the cut. Apply only light pressure while running the engine at full throttle.**
- **When the saw chain is caught in the cut, do not attempt to pull it out by force, but use a wedge or a lever to open the way.**

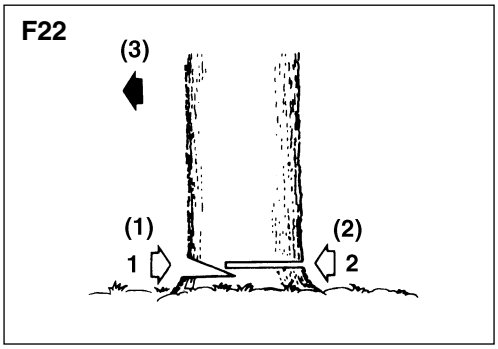
F21



■ **GUARD AGAINST KICKBACK (F21)**

- This saw is equipped with a chain brake that will stop the chain in the event of kickback if operating properly. You must check the chain brake operation before each usage by running the saw at full the throttle for I -2 seconds and pushing the front hand guard forward. The chain should stop immediately with the engine at full speed. If the chain is slow to stop or does not stop, replace the brake band and clutch drum before use.

- It is extremely important that the chain brake be checked for proper operation before each use and that the chain be sharp in order to maintain the kickback safety level of this saw. Removal of the safety devices, inadequate maintenance, or incorrect replacement of the bar or chain may increase the risk ot serious personal injury due to kickback.



■ **FELLING A TREE (F22)**

1. Decide the felling direction considering the wind, lean of the tree, location of heavy branches, ease of job after felling and other factors.
2. While clearing the area around the tree, arrange a good foothold and retreat path.
3. Make a notch cut one-third of the way into the tree on the felling side.
4. Make a felling cut from the opposite side of the notch and at a level slightly higher than the bottom of the notch.

⚠WARNING

When you fell a tree, be sure to warn your neighboring workers of the danger.

(1) Notch cut
(2) Felling cut
(3) Felling direction

Bucking and Limbing

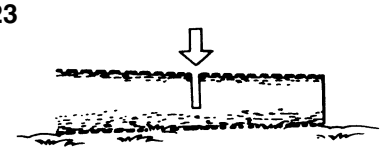
⚠WARNING

- **Always ensure your foothold. Do not stand on the log.**
- **Be alert to the rolling over of a cut log. Especially when working on a slope, stand on the uphill side of the log.**
- **Follow the instructions in "For Safe Operation" to avoid kickback of the saw.**

Before starting work, check the direction of bending force inside the log to be cut. Always finish cutting from the opposite side of bending direction to prevent the guide bar from being caught in the cut.

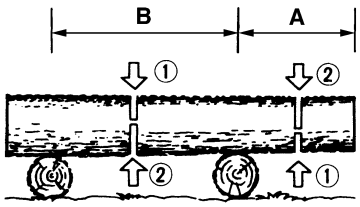
8. Sawing

F23



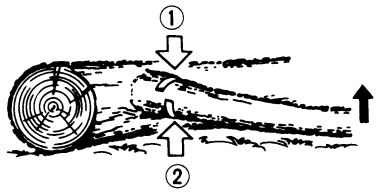
A Log lying on the ground (F23)
Saw down halfway, then roll the log over and cut from the opposite side.

F24



A Log hanging off the ground (F24)
In area A, saw up from the bottom one-third and finish by sawing down from the top. In area B, saw down from the top one-third and finish by sawing up from the bottom.

F25

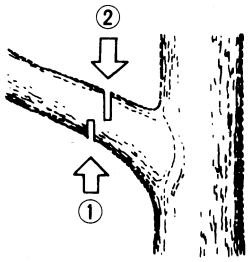


Cutting Limb of Fallen Tree (F25)
First check to which side the limb is bent. Then make the initial cut from the bent side and finish by sawing from the opposite side.

⚠WARNING

Be alert to the springing back of a cut limb.

F26



Pruning of Standing Tree (F26)
Cut up from the bottom, finish down from the top.

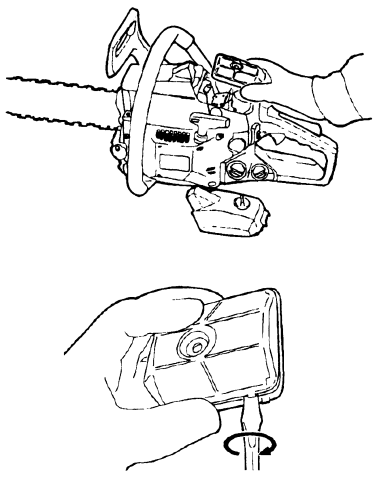
⚠WARNING

- **Do not use an unstable foothold or ladder.**
- **Do not overreach.**
- **Do not cut above shoulder height.**
- **Always use your both hands to grip the saw.**

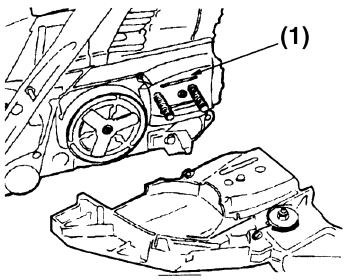
9. Maintenance

Maintenance, replacement, or repair of the emission control device and systems may be performed by any non-road engine repair establishment or individual.

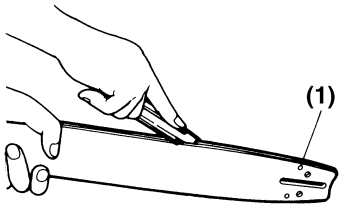
F27



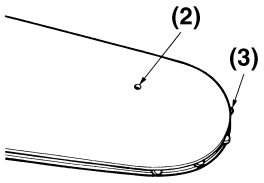
F28



F29



F30



⚠WARNING

Before cleaning, inspecting or repairing your unit, make sure that engine has stopped and is cool. Disconnect the spark plug to prevent accidental starting.

■ MAINTENANCE AFTER EACH USE

1. Air filter

Dust on the cleaner surface can be removed by tapping a corner of the cleaner against a hard surface. To clean dirt in the meshes, split the cleaner into halves and brush in gasoline. When using compressed air, blow from the inside. (F27)

To assemble the cleaner halves, press the rim until it clicks.

NOTE

When installing the main filter, make sure that the grooves on the filter edge are correctly fit with the projections on the cylinder cover.

2. Oiling port

Dismount the guide bar and check the oiling port for clogging. (F28)

(1) Oiling port

3. Guide bar

When the guide bar is dismounted, remove sawdust in the bar groove and the oiling port. (F29) Grease the nose sprocket from the feeding port on the tip of the bar. (F30)

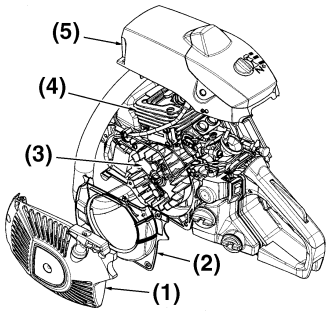
(1) Oiling port (2) Grease port (3) Sprocket

4. Others

Check for fuel leakage and loose fastenings and damage to major parts, especially handle joints and guide bar mounting and muffler. If any defects are found, make sure to have them repaired before operating again.

9. Maintenance

F31



■ **PERIODICAL SERVICE POINTS**

1. Air cooling system

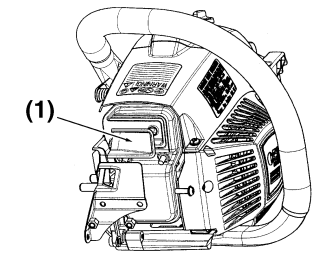
Dust clogging around the cooling system and the cylinder fins will cause overheating of the engine. Periodically check and clean the cooling system and the cylinder fins with a brush after removing the cylinder cover, the air cleaner and the recoil case. When installing the cylinder cover and the cooling system, make sure that switch wires and grommets are positioned correctly in place. (F31)

(1) Recoil case
(2) Fan cover
(3) Fan
(4) Cylinder fins
(5) Cylinder cover

NOTE

Be sure to block the air intake hole.

F32



2. Spark arrester

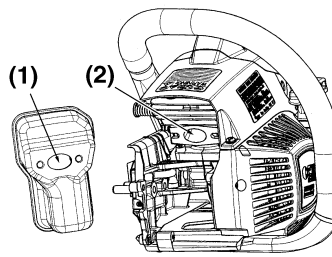
The muffler is equipped with a spark arrester to prevent red hot carbon from flying out of the exhaust outlet. Periodically check and clean as necessary with a wire brush after removing two muffler cover nuts and one screw. (F32)

(1) Spark arrester

NOTE

Never use a muffler if the spark arrester is missing or defective.

F33

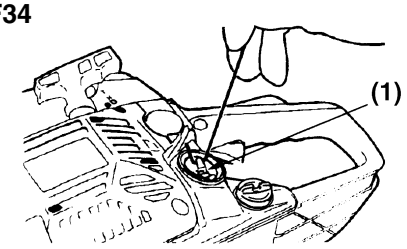


3. Exhaust port

Remove the muffler, insert a screwdriver into the vent, and wipe away any carbon buildup after every 100 hours of use. Wipe away any carbon buildup on the muffler exhaust vent and the cylinder exhaust port at the same time. (F33)

(1) Muffler exhaust vent
(2) Cylinder exhaust port

F34



2. Fuel filter

(a) Using a wire hook, take out the filter from the filler port. (F34)

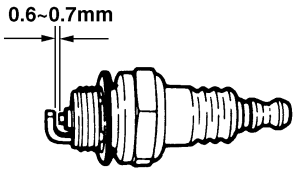
(1) Fuel filter

(b) Disassemble the filter and wash with gasoline, or replace with new one if needed.

NOTE

- After removing the filter, use a pinch to hold the end of the suction pipe.
- When assembling the filter, take care not to allow filter fibers or dust inside the suction pipe.

F35

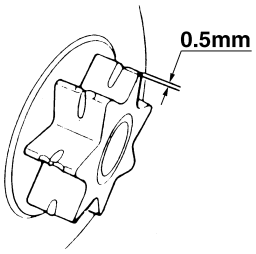


4. Spark plug

Clean the electrodes with a wire brush and reset the gap to 0.65 mm as necessary. (F35)

Champion
RZ7C

F36

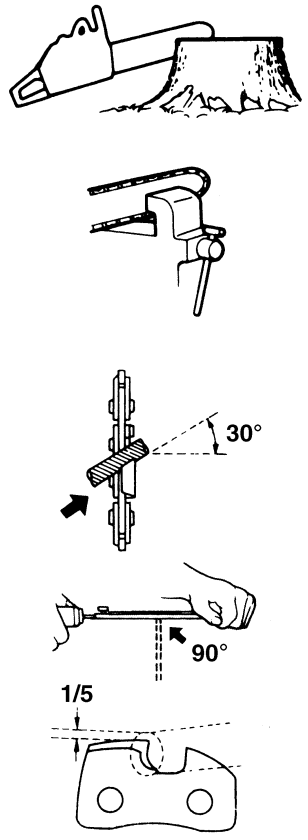


5. Sprocket

Check for cracks and for excessive wear interfenng with the chain drive. If the wearing is found obviously, replace it with new one. Never fit a new chain on a worn sprocket, or a worn chain on a new sprocket. (F36)

10. Maintenance of Saw Chain and Guide Bar

F36



■ SAW CHAIN

⚠WARNING

It is very important for smooth and safe operation to keep the cutters always sharp.

Your cutters need to be sharpened when:

- Sawdust becomes powder-like.
- You need extra force to saw in.
- The cut way does not go straight.
- Vibration increases.
- Fuel consumption increases.

Cutter setting standards:

⚠WARNING

Be sure to wear safety gloves.

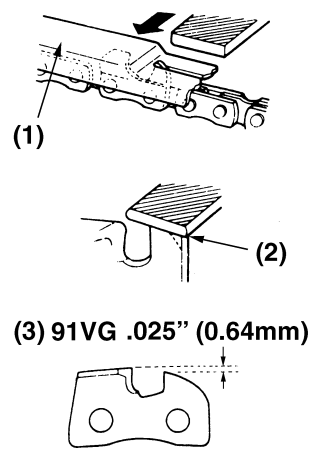
Before filing:

- Make sure the saw chain is held securely.
- Make sure the engine is stopped.
- Use a round file of proper size for your chain.

Chain type:	91VG
File size:	5/32 in (4.0mm)

Place your file on the cutter and push straight forward. Keep the file position as illustrated. (F36)

F37



After every cutter has been set, check the depth gauge and file it to the proper level as illustrated. (F37)

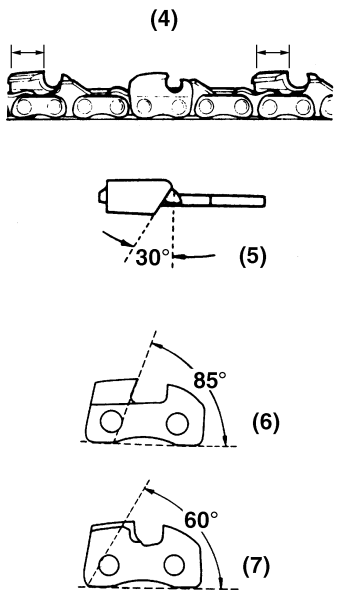
⚠WARNING

Be sure to round off the front edge to reduce the chance of kickback or tie-strap breakage.

(1) Appropriate gauge checker
(2) Make the shoulder round
(3) Depth gauge standard

10. Maintenance of Saw Chain and Guide Bar

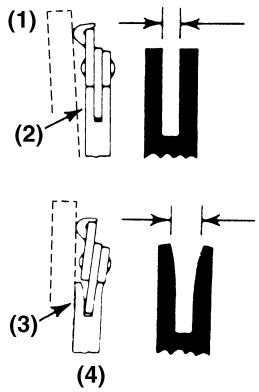
F38



Make sure every cutter has the same length and edge angles as illustrated. (F38)

(4) Cutter length
(5) Filing angle
(6) Side plate angle
(7) Top plate cutting angle

F39



■ GUIDE BAR

- Reverse the bar occasionally to prevent partial wear.
- The bar rail should always be a square. Check for wear of the bar rail. Apply a ruler to the bar and the outside of a cutter. If a gap is observed between them, the rail is normal. Otherwise, the bar rail is worn. Such a bar needs to be corrected or replaced. (F39)

(1) Ruler
(2) Gap
(3) No gap
(4) Chain tilts

11. Troubleshooting Guide

Case 1. Starting failure:

⚠ **Make sure the icing prevention system is not working.**

Check fuel for water or substandard mixture. ➜ Replace with proper fuel.

↓

Check for engine flooding. ➜ Remove and dry the spark plug. Then pull the starter again with no choke.

↓

Check the spark. ➜ Replace with a new plug.

Case 2. Lack of power/Poor acceleration/Rough idling

Check fuel for water or substandard mixture. ➜ Replace with proper fuel.

↓

Check air filter and fuel filter for clogging. ➜ Clean.

↓

Check carburetor for inadequate adjustment. ➜ Readjust speed needles.

↓

Check muffler and cylinder (exhaust port). ➜ Wipe away carbon buildup.

Case 3. Oil does not come out

Check oil for substandard quality. ➜ Replace.

↓

Check oil passage and ports for clogging. ➜ Clean.

When your unit seems to need further service, please consult with our service shop in your area.

12. Storage

1. Empty the fuel tank and run the engine out of fuel.
2. Empty the oil tank.
3. Clean the entire unit.
4. Store the unit in a dry place out of the reach of children.

13. Parts list

CHAINSAWS

GZ4000

NOTE :

1. Use KOMATSU ZENOAH genuine parts as specified in the parts list for repair and/or replacement.
2. KOMATSU ZENOAH does not warrant the machines, which have been damaged by the use of any parts other than those specified by the company.
3. When placing parts orders for repair and/or replacement, check if the model name and the serial number are applicable to those specified in the parts list, then use parts number described in the parts list.
4. The contents described in the parts list may change due to improvement.
5. The parts for the machine shall be supplied seven (7) years after the machine is discontinued. [It is possible that some specific parts may be subject to change of their delivery term and list price within the limit of seven (7) years after the machine is discontinued. It is also possible that some parts may be available even after the limit of seven (7) years.]

APPLICABLE SERIAL NUMBERS : 60322501 and up

Mar. 2006

13. Parts list

Fig.1 POWER UNIT (S/N 60322501 and up)

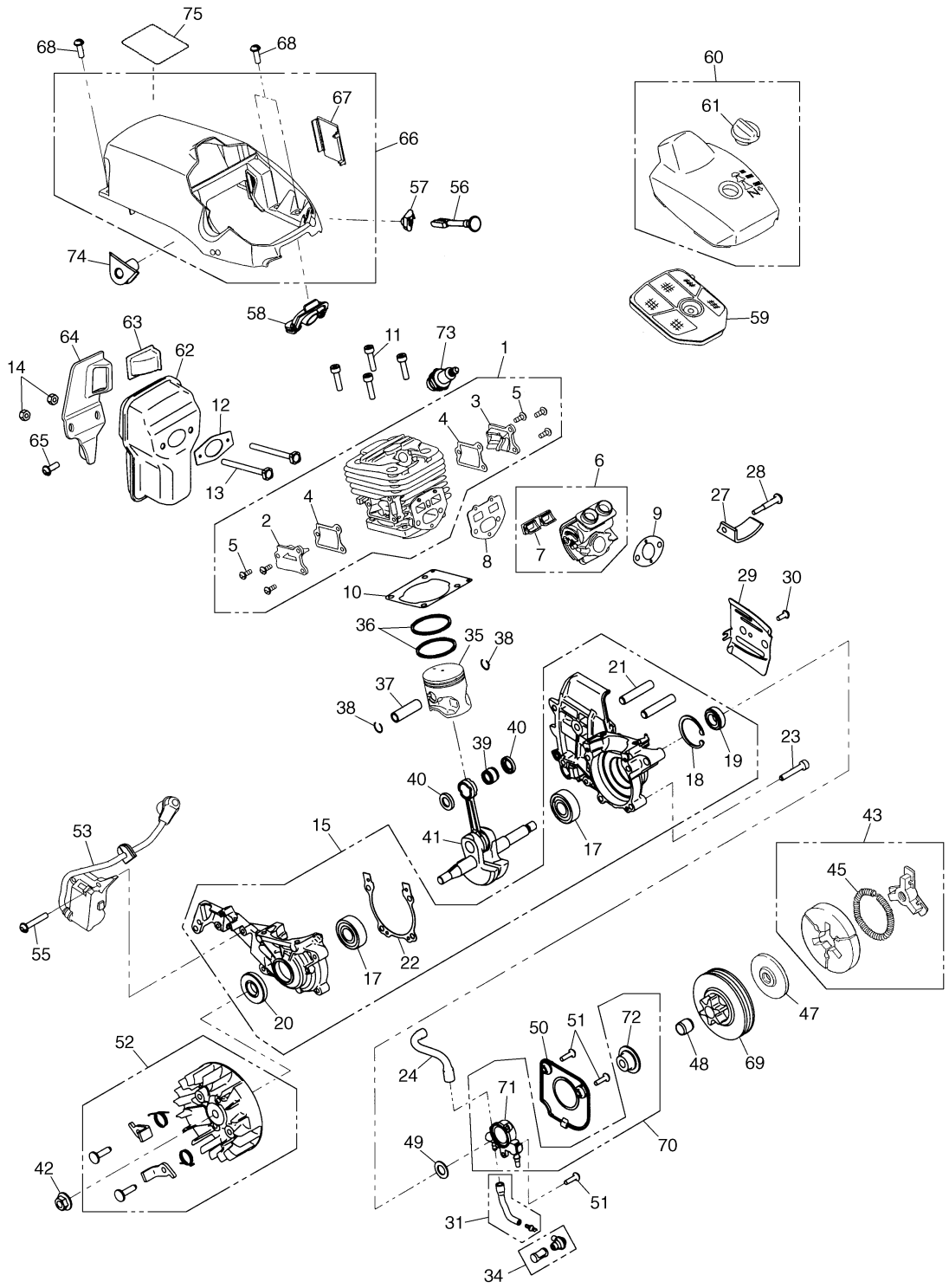


Fig.1 POWER UNIT (S/N 60322501 and up)

Key#	PART NUMBER	DESCRIPTION	Q'TY /UNIT	NOTE
1	848-C50-1211	CYLINDER ASSY	1	
2	848-C50-12C1	• TR COVER MAG	1	
3	848-C50-12D1	• TR COVER PTO	1	
4	848-C50-12E1	• GASKET	2	
5	2670-25430	• SCREW	6	
6	848-C50-1401	INSULATOR ASSY	1	
7	848-C50-16F1	• SEAL	1	
8	848-C50-14B1	GASKET	1	
9	3330-14121	GASKET, carb	1	
10	2850-14212	GASKET, cyl	1	
11	4820-13180	BOLT	4	
12	T2100-15210	GASKET	1	
13	T2100-15220	BOLT	2	
14	2850-15230	NUT	2	
15	848-C40-2102	CASE ASSY	1	
	–	• PIN	3	
17	848-89C-3200	BEARING	2	
18	04065-03212	SNAP RING	1	
19	2169-21210	SEAL	1	
20	848-8AC-3210	SEAL	1	
21	2616-21230	STAD	2	
22	T2100-21310	GASKET	1	
23	4820-21310	BOLT	4	
24	T2100-21400	PIPE OUT COMP.	1	
	–	• PIPE	1	
	–	• PIN	1	
27	848-C30-66F1	CATCHER, chain	1	
28	2850-25220	SCREW	1	
29	2850-25411	PLATE	1	
30	2670-25430	SCREW	1	
31	848-C30-6732	PIPE IN COMP.	1	
	–	• PIPE IN	1	
	–	• JOINT	1	
34	T2100-23200	FILTER COMP.	1	
35	848-C50-41A1	PISTON	1	
36	2660-41211	RING	2	
37	T2128-41310	PIN	1	
38	1300-41320	RING	2	
39	T2100-41410	BEARING	1	
40	2850-41510	WASHER	2	
41	T2128-42000	SHAFT COMP.	1	
42	1650-43230	NUT	1	
43	848-C40-5121	CLUTCH ASSY	1	
	–	• SHOE	3	
45	2870-51230	• SPRING	1	
	–	• BOSS	1	
47	2850-51211	PLATE	1	
48	3310-51310	BEARING	1	
49	2850-55211	WASHER	1	

Key#	PART NUMBER	DESCRIPTION	Q'TY /UNIT	NOTE
50	T2100-55610	COVER	1	
51	2670-55410	SCREW	4	
52	848-C50-7111	ROTOR COMP.	1	
53	848-C50-7121	COIL ASSY	1	
55	2670-55410	SCREW	2	
56	2850-82411	ROD	1	
57	T2100-82420	GROMMET	1	
58	T2100-82520	GROMMET	1	
59	848-C50-8300	CLEANER ASSY	1	
60	848-C50-8321	COVER COMP.	1	
61	2841-83320	• KNOB	1	
62	T2100-15112	MUFFLER	1	
63	T2108-15210	ARRESTER	1	
64	T2100-15311	STAY	1	
65	2670-14320	SCREW	1	
66	848-C50-3111	COVER COMP.	1	
67	2856-31120	• CAP	1	
68	848-825-1911	SCREW	4	
69	2860-51111	DRUM 3/8-6	1	
70	848-C40-6701	OIL PUMP ASSY	1	
71	848-C40-67A1	• OIL PUMP	1	
72	2850-55121	• WORM	1	
73	3699-91809	SPARK PLUG RZ7C	1	
74	2867-82320	GROMMET	1	
75	T2108-31611	LABEL	1	

13. Parts list

Fig.2 POWER UNIT (S/N 300101 and up)

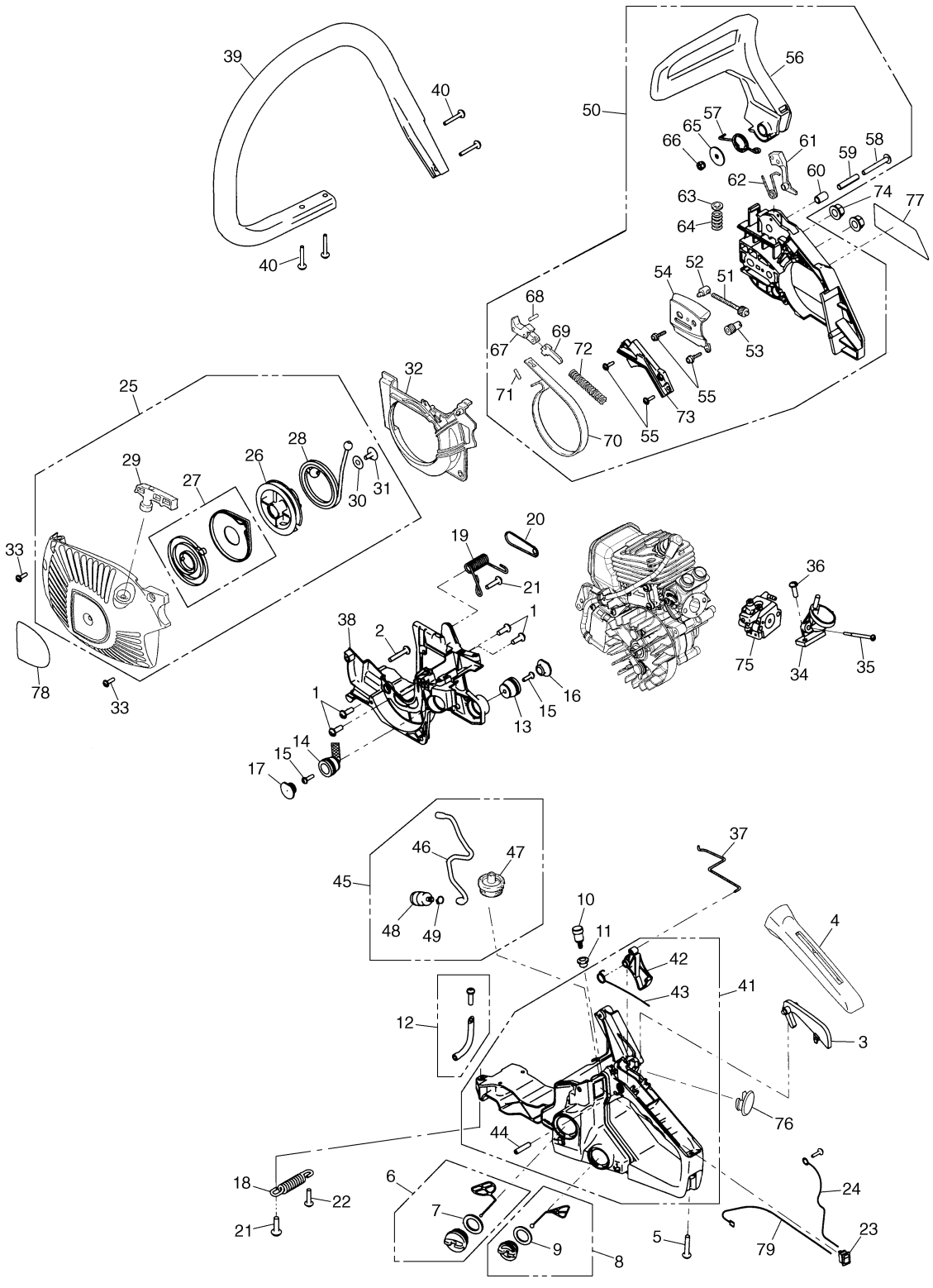
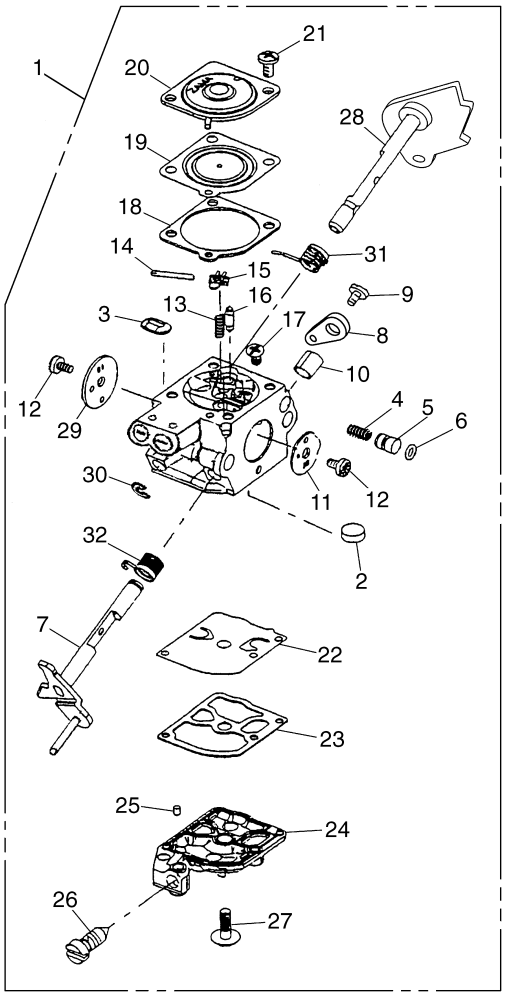


Fig.2 POWER UNIT (S/N 300101 and up)

Key#	PART NUMBER	DESCRIPTION	Q'TY /UNIT	NOTE
1	2670-14320	SCREW	4	
2	848-825-1911	SCREW	1	
3	848-C30-33E3	ARM	1	
4	T2128-34110	COVER	1	
5	848-825-2711	SCREW	1	
6	2670-34401	TANK CAP	1	
7	2670-34430	• GASKET	1	
8	2877-31800	CAP ASSY	1	
9	2841-31820	• GASKET	1	
10	2850-34501	BREATHER ASSY	1	
11	3317-85120	GROMMET	1	
12	T2100-31500	PIPE COMP.	1	
13	2616-35141	DAMPER	1	
14	T2100-35200	DAMPER COMP.	1	
15	848-825-1601	SCREW	2	
16	2856-35180	CAP (T)	1	
17	2880-35250	CAP	1	
18	T2100-35110	SPRING F	1	
19	T2100-35150	SPRING R	1	
20	T2102-35160	PLATE	1	
21	848-825-1901	SCREW	2	
22	2670-14320	SCREW	1	
23	2850-74102	SWITCH ASSY	1	
24	T2100-74210	CORD	1	
25	848-C50-7501	STARTER ASSY	1	
26	2850-75211	• REEL	1	
27	2850-75301	• SPRING COMP.	1	
28	3317-75410	• ROPE	1	
29	3330-75421	• KNOB	1	
30	1400-86280	• WASHER	1	
31	848-825-1901	• SCREW	1	
32	T2100-75610	COVER	1	
33	848-825-1911	SCREW	3	
34	2850-82114	MANIFOLD	1	
35	2867-82210	BOLT	2	
36	848-825-1911	SCREW	1	
37	T2100-82512	ROD	1	
38	T2100-25111	CASE	1	
39	848-C50-32A1	HANDLE	1	
40	848-825-2711	SCREW	4	
41	T2100-33000	HANDLE ASSY	1	
42	2850-33313	• LEVER	1	
43	3356-33321	• SPRING	1	
44	04025-00524	• SPRING PIN	1	
45	T2100-34301	PIPE ASSY	1	
46	2850-34311	• PIPE	1	
47	2851-34321	• GROMMET	1	
48	1850-85300	• FILTER	1	
49	1260-85460	• CLIP	1	
50	T2128-54000	BRAKE ASSY	1	
51	2671-53210	• SCREW	1	
52	2810-53221	• NUT	1	
53	2671-53230	• GEAR	1	
54	2850-53250	• PLATE	1	
55	2670-54630	• SCREW	4	
56	2850-54111	• GUARD	1	
57	2850-54120	• SPRING	1	
58	2850-54130	• SCREW	1	
59	2850-54140	• SPACER	1	
60	2850-54211	• SPACER	1	
61	848-C60-5423	• WEIGHT	1	
62	2872-54230	• SPRING	1	
63	2851-54260	• PLATE	1	
64	2851-54270	• SPRING	1	
65	3330-75411	• WASHER	1	
66	3310-53331	• NUT	1	
67	2851-54301	• LEVER COMP.	1	
68	2851-54350	• ROLLER	1	
69	2670-54411	• ARM	1	
70	2851-54510	• BAND	1	
71	3356-24140	• ROLLER	1	
72	2670-54610	• SPRING	1	
73	2850-54626	• COVER	1	
74	3350-53410	NUT	2	
75	848-C50-8101	CARBURETOR ASSY	1	
76	2851-33510	CAP	1	
77	848-C50-90B0	LABEL	1	
78	848-C50-90C0	LABEL	1	
79	T2102-71510	CORD	1	

13. Parts list

Fig.3 CARBURETOR COMPONENTS (S/N 300101 and up)

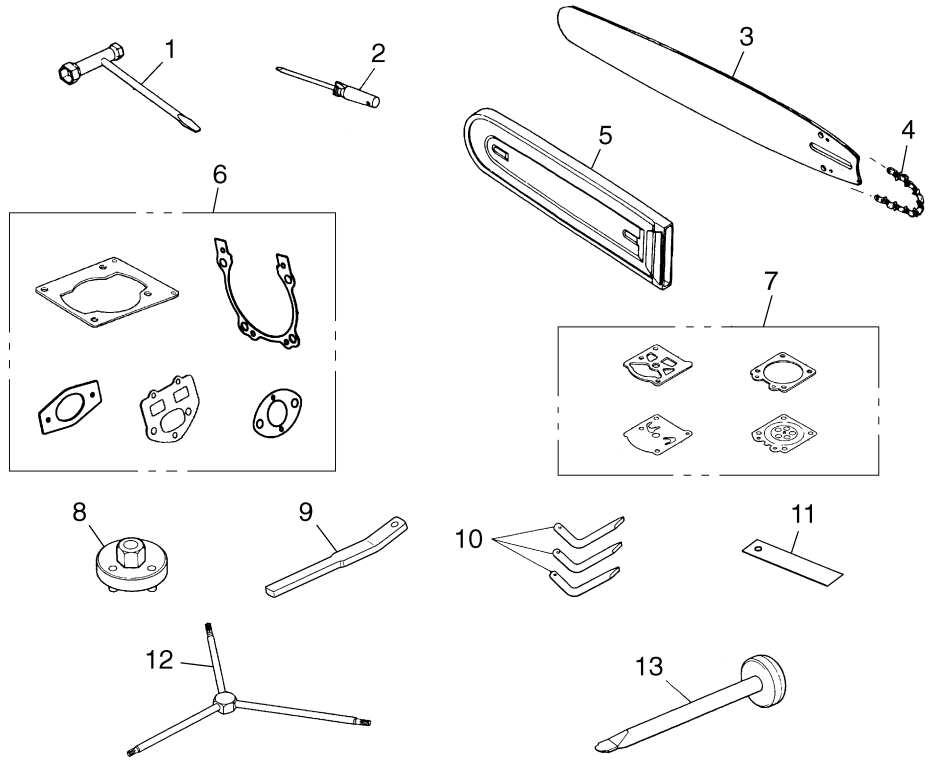


Key#	PART NUMBER	DESCRIPTION	Q'TY /UNIT	NOTE
1	848-C50-8101	CARBURETOR ASSY	1	
2	848-C50-81A0	• STRAINER	1	✻
3	848-C50-81J0	• PLUG	1	✻
4	848-C50-80M0	• SPRING	1	
5	848-C50-80N0	• PLUNGER	1	
6	848-C50-80P0	• O-RING	1	
7	848-C50-81T0	• SHAFT, throttle	1	
8	848-C50-81Z0	• LEVER, throttle	1	
9	848-C50-80R0	• SCREW	1	
10	848-C50-81S0	• COLLAR	1	
11	848-C50-81U0	• VALVE, throttle	1	
12	848-C50-81W0	• SCREW	2	
13	848-C50-81C0	• SPRING	1	✻
14	848-C50-81E0	• PIN	1	✻
15	848-C50-81F0	• LEVER	1	✻
16	848-C50-81B0	• VALVE	1	✻
17	848-C50-81D0	• SCREW	1	
18	848-C50-81L0	• GASKET	1	✻
19	848-C50-81K0	• DIAPHRAGM	1	✻
20	848-C50-81G0	• COVER	1	
21	848-C50-80B0	• SCREW	2	
22	848-C50-81M0	• DIAPHRAGM, pump	1	✻
23	848-C50-81N0	• GASKET, pump	1	✻
24	848-C50-81H0	• COVER, pump	1	
25	848-C50-81Y0	• PIECE, friction	1	
26	848-C50-81X0	• SCREW, idle	1	
27	848-C50-81P0	• SCREW	1	
28	848-C50-80E0	• SHAFT, choke	1	
29	848-C50-80C0	• VALVE, choke	1	
30	848-C50-80A0	• E-RING	1	
31	848-C50-80D0	• SPRING, choke	1	
32	848-C50-81R0	• SPRING, throttle	1	

✻: 848-C50-630 REBUILD KIT (Option)

13. Parts list

Fig.4 ACCESSORIES (S/N 300101 and up)



Key#	PART NUMBER	DESCRIPTION	Q'TY /UNIT	NOTE
1	848-8U1-0010	Plug, wrench 13x16	1	(OP)
2	2670-91150	Driver	1	(OP)
3	Oregon 10014	Bar 16"	1	
4	Oregon double-guard 91VG56X	Chain	1	
5	Oregon 28734	Protecter	1	(OP)
6	848-C50-0610	Gasket kit	1	(OP)
7	848-C50-0620	Gasket kit	1	(OP)
8	2670-96210	Wrench (for clutch)	1	(OP)
9	848-8W2-0010	Stopper (for piston)	1	(OP)
10	2670-96240	Wrench (for clutch ASS'Y)	3	(OP)
11	3330-97310	Gauge (for air gap)	1	(OP)
12	2850-96410	Wrench (T20xT25xT27)	1	(OP)
13	2670-96510	Guide (for break spring)	1	(OP)

Key#	PART NUMBER	DESCRIPTION	Q'TY /UNIT	NOTE

CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT
YOUR WARRANTY RIGHTS AND OBLIGATIONS

THE CALIFORNIA AIR RESOURCES BOARD AND KOMATSU ZENOAH Co. ARE PLEASED TO EXPLAIN THE **EMISSION CONTROL SYSTEM WARRANTY** ON YOUR **1995 AND LATER** LAWN AND GARDEN EQUIPMENT ENGINE. IN CALIFORNIA, NEW UTILITY AND LAWN AND GARDEN EQUIPMENT ENGINES MUST BE DESIGNED, BUILT AND EQUIPPED TO MEET THE STATE'S STRINGENT ANTI-SMOG STANDARDS.
KOMATSU ZENOAH Co, MUST WARRANT THE EMISSION CONTROL SYSTEM ON YOUR LAWN AND GARDEN EQUIPMENT ENGINE FOR THE PERIODS OF TIME LISTED BELOW PROVIDED THERE HAS BEEN NO ABUSE, NEGLECT OR IMPROPER MAINTENANCE OF YOUR LAWN AND GARDEN EQUIPMENT ENGINE.

YOUR EMISSION CONTROL SYSTEM. MAY INCLUDE PARTS SUCH AS THE CARBURETOR, THE IGNITION SYSTEM, AND CATALYTIC CONVERTER. ALSO INCLUDED MAY BE THE HOSES, BELTS, CONNECTORS AND OTHER EMISSION-RELATED ASSEMBLIES.

WHERE A WARRANTABLE CONDITION EXISTS, KOMATSU ZENOAH Co. WILL REPAIR YOUR LAWN AND GARDEN EQUIPMENT ENGINE AT NO COST TO YOU INCLUDING DIAGNOSIS, PARTS AND LABOR.

MANUFACTURER'S WARRANTY COVERAGE:

THE 1995 AND LATER UTILITY AND LAWN AND GARDEN EQUIPMENT ENGINES ARE WARRANTED FOR **TWO YEARS.** IF ANY EMISSION-RELATED PART ON YOUR ENGINE IS DEFECTIVE, THE PART WILL BE REPAIRED OR REPLACED BY KOMATSU ZENOAH Co.

OWNER'S WARRANTY RESPONSIBILITIES:

—AS THE LAWN AND GARDEN EQUIPMENT ENGINE OWNER, YOU ARE RESPONSIBLE FOR THE PERFORMANCE OF THE **REQUIRED MAINTENANCE LISTED IN YOUR OWNER'S MANUAL.** KOMATSU ZENOAH Co. RECOMMENDS THAT YOU RETAIN ALL RECEIPTS COVERING MAINTENANCE ON YOUR LAWN AND GARDEN ENGINE, BUT KOMATSU ZENOAH Co. CAN NOT DENY WARRANTY SOLELY FOR THE LACK OF RECEIPTS OR FOR YOUR FAILURE TO ENSURE THE PERFORMANCE OF ALL SCHEDULED MAINTENANCE.

—AS THE LAWN AND GARDEN EQUIPMENT ENGINE OWNER, YOU SHOULD BE AWARE, HOWEVER, THAT KOMATSU ZENOAH Co. MAY DENY YOU WARRANTY COVERAGE IF YOUR LAWN AND GARDEN EQUIPMENT ENGINE OR A PART HAS FAILED DUE TO ABUSE, NEGLECT, IMPROPER MAINTENANCE OR UNAPPROVED MODIFICATION.

—YOU ARE RESPONSIBLE FOR PRESENTING YOUR LAWN AND GARDEN EQUIPMENT ENGINE TO A KOMATSU ZENOAH Co. DISTRIBUTION CENTER AS SOON AS A PROBLEM EXISTS. THE WARRANTY REPAIRS SHOULD BE COMPLETED IN A REASONABLE AMOUNT OF TIME, NOT TO EXCEED **30 DAYS.**

IF YOU HAVE ANY QUESTIONS REGARDING YOU WARRANTY RIGHTS AND RESPONSIBILITIES, YOU SHOULD CONTACT KOMATSU ZENOAH AMERICA INC. AT (770)-381-5147.

RedMax

CHAIN SAWS LIMITED WARRANTY

EMISSION-RELATED PARTS, FOR TWO (2) YEARS FROM THE DATE OF ORIGINAL DELIVERY, KOMATSU ZENOAH AMERICA INC. (THE COMPANY), THROUGH ANY RedMax DEALER, WILL REPAIR OR REPLACE, FREE OF CHARGE, FOR THE ORIGINAL AND EACH SUBSEQUENT PURCHASER, ANY PART OR PARTS FOUND TO BE DEFECTIVE IN MATERIAL AND/OR WORKMANSHIP. EMISSION-RELATED PARTS ARE:

THE CARBURETOR ASSY, COIL ASSY, ROTOR, SPARKPLUG,
AIR FILTER, FUEL FILTER, INTAKE MANIFOLD, AND THE GASKETS

ALL OTHER PARTS EXCEPT ABOVE PARTS, FOR TWO (2) YEARS OF HOME USE, 1 YEAR COMMERCIAL USE AND NINETY (90) DAYS FOR RENTAL USE FROM THE DATE OF ORIGINAL PURCHASE, THE COMPANY, THROUGH ANY RedMax DEALER, WILL REPAIR OR REPLACE, FREE OF CHARGE, FOR THE ORIGINAL PURCHASER, ANY PART OF PARTS FOUND TO BE DEFECTIVE IN MATERIAL AND/OR WORKMANSHIP. **THIS IS THE EXCLUSIVE REMEDY.**

THE PURCHASER SHALL BEAR COSTS OF TRANSPORTING THE UNIT TO AND FROM THE RedMax DEALER.

THE PURCHASER SHALL NOT BE CHARGED FOR DIAGNOSTIC LABOR WHICH LEADS TO THE DETERMINATION THAT A WARRANTED PART IS DEFECTIVE, IF THE DIAGNOSTIC WORK IS PERFORMED AT THE RedMax DEALER.

THE PURCHASER OR OWNER IS RESPONSIBLE FOR THE PERFORMANCE OF THE REQUIRED MAINTENANCE AS DEFINED BY THE MANUFACTURER IN THE OWNER/OPERATOR MANUAL.

ANY WARRANTED PART WHICH IS NOT SCHEDULED FOR REPLACEMENT AS REQUIRED MAINTENANCE, OR WHICH IS SCHEDULED ONLY FOR REGULAR INSPECTION TO THE EFFECT OF "REPAIR OR REPLACE AS NECESSARY" SHALL BE WARRANTED FOR THE WARRANTY PERIOD.ANY WARRANTED PART WHICH IS SCHEDULED FOR REPLACEMENT AS REQUIRED MAINTENANCE SHALL BE WARRANTED FOR THE PERIOD OF TIME UP TO THE FIRST SCHEDULED REPLACEMNET POINT FOR THE PART.

ANY REPLACEMENT PART THAT IS EQUIVALENT IN PERFORMANCE AND DULABILITY MAY BE USED IN NON-WARRANTY MAINTENANCE OR REPAIRS, AND SHALL NOT REDUCE THE WARRANTY OBLIGATION OF THE COMPANY.

THE COMPANY IS LIABLE FOR DAMAGES TO OTHER ENGINE COMPONENTS CAUSED BY THE FAILURE OF A WARRANTED PARTS STILL UNDER WARRANTY.

THE WARRANTY DOES NOT APPLY TO THOSE UNITS WHICH HAVE BEEN DAMAGED BY NEGLIGENCE OF INSTRUCTION LISTED IN THE OWNER/OPERATOR MANUAL FOR PROPER USE AND MAINTENANCE OF THE UNITS, ACCIDENTAL MISHANDLING, ALTERATION, ABUSE, IMPROPER LUBULICATION, USE OF ANY PARTS OR ACCESSARIES OTHER THAN THOSE SPECIFIED BY THE COMPANY, OR OTHER CAUSES BEYOND THE CONPANY'S CONTROL.

THIS WARRANTY DOES NOT COVER THOSE PARTS REPLACED BY NORMAL WEAR OR HARMLESS CHANGES IN THEIR APPEARANCE.

THERE ARE NO OTHER EXPRESS WARRANTIES.

IMPLIED WARRANTIES INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE **ARE LIMITED** TO TWO (2) YEARS FOR HOME USE, ONE (1) YEAR FOR COMMERCIAL USE AND NINETY (90) DAYS FOR RENTAL USE, FROM THE ORIGINAL DELIVERY DATE.

LIABILITIES FOR INCIDENTAL OR CONSEQUENTIAL DAMAGE UNDER ANY AND ALL WARRANTIES ARE EXCLUDED.

SOME STATES DO NOT ALLOW LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS OR EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMINATION OR EXCLUSION MAY NOT APPLY TO YOU.
THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.
IF YOU NEED TO OBTAIN INFORMATION ABOUT THE NEAREST SERVICE CENTER, PLEASE CALL KOMATSU ZENOAH AMERICA INC. AT (770)-381-5147.

IMPORTANT: YOU WILL RECEIVE A WARRANTY REGISTRATION CARD AT TIME OF PURCHASE.PLEASE FILL OUT THE CARD AND SEND IT TO RedMax / KOMATSU ZENOA AMERICA WITHIN SEVEN (7) DAYS.BE SURE TO KEEP A COPY FOR YOUR RECORDS.

RedMax®

KOMATSU ZENOAH AMERICA INC.
4344 Shackleford Road Suite 500
Norcross, Georgia 30093

RedMax

Garantie limitée des tronçonneuses

Pièces en rapport avec les émissions de gaz d'échappement : KOMATSU ZENOAH AMERICA INC., par l'intermédiaire de n'importe quel revendeur RedMax, réparera gratuitement ou remplacera gratuitement pour l'acheteur initial et chaque acheteur successif toute(s) pièce(s) se révélant de constitution et/ou de montage défectueux pendant deux (2) ans à compter de la date initiale de livraison d'une unité. Les pièces en rapport avec les émissions de gaz d'échappement sont:

l'assemblage carburateur, l'assemblage bobine, le rotor, la bougie, le filtre à air, le filtre à carburant, la tubulure d'admission et les joints

Toutes les pièces autres que celles mentionnées ci-dessus, deux (2) ans d'utilisation domestique, 1 an d'utilisation commerciale et quatre-vingt-dix (90) jours pour la location à compter de la date d'achat initial. La société, par l'intermédiaire d'un distributeur RedMax, réparera ou remplacera toute(s) pièce(s), sans frais et au bénéfice de l'acheteur original, en prenant en charge les frais de pièces et/ou de main d'œuvre. **Telles sont les limites de la garantie.**

Le coût du transport de l'unité jusqu'au revendeur RedMax et depuis celui-ci sera à la charge de l'acheteur.

L'acheteur ne supportera pas le coût de main d'oeuvre du diagnostic qui amène à la conclusion qu'une pièce garantie est défectueuse, si ce diagnostic est effectué chez le revendeur RedMax.

L'acheteur ou propriétaire a pour responsabilité d'effectuer l'entretien obligatoire tel que défini par le fabricant dans le manuel du propriétaire/de l'utilisateur.

Toute pièce garantie dont le remplacement n'est pas prévu dans le cadre de l'entretien obligatoire, ou pour laquelle est seulement prévue une inspection périodique pour "remplacement ou réparation si nécessaire" sera garantie pour la période de garantie. Toute pièce garantie arrivée à l'échéance de son premier remplacement prévu sera garantie jusqu'à celui-ci.

Toute pièce de rechange équivalente en performance ou en durabilité peut être utilisée pour l'entretien hors-garantie ou les réparations hors-garantie, et ce sans réduire l'obligation de garantie incombant à la société.

La société sera tenue responsable des dommages aux autres composants du moteur causés par la défaillance de pièce(s) garantie(s) en période de garantie.

La garantie ne s'applique pas aux unités endommagées par suite de: négligence dans la mise en oeuvre des instructions spécifiées dans le manuel du propriétaire/de l'utilisateur en vue d'une utilisation et d'un entretien correct, fausse manœuvre accidentelle, modification, utilisation abusive, lubrification incorrecte, utilisation de pièces ou d'accessoires autres que ceux spécifiés par la société, ou autres causes hors du contrôle de la société.

Cette garantie ne couvre pas les pièces remplacées en raison de leur usure normale ou de changements d'apparence sans effets.

Il n'existe aucune autre garantie explicite.

Les garanties implicites, y compris la valeur marchande et la valeur d'usage pour une utilisation particulière, **sont limitées** à deux (2) ans d'utilisation domestique, un (1) an d'utilisation commerciale et quatre-vingt-dix (90) jours pour la location, à compter de la date originale de livraison.

Les responsabilités pour les dommage conséquents ou incidents sont exclues de toutes les garanties.

Certaines provinces n'autorisant pas les limitations à la durée des garanties implicites, ou les exclusions ou limitations relatives aux dommages incidents ou conséquents, la limitation indiquée ci-dessus peut ne pas vous être applicable.
Cette garantie vous donne des droits juridiques spécifiques, et vous pouvez également jouir d'autres droits variant d'une province à l'autre.
Si vous désirez obtenir des informations sur le centre de service le plus proche, veuillez appeler KOMATSU ZENOAH AMERICA INC. au (770)-381-5147

Note importante: vous recevrez une carte d'enregistrement de garantie au moment de l'achat. Veuillez la remplir et l'adresser à RedMax / KOMATSU ZENOAH AMERICA sous sept (7) jours en prenant soin de conserver une copie pour vous.

RedMax®

KOMATSU ZENOAH AMERICA INC.
4344 Shackleford Road Suite 500
Norcross, Georgia 30093